

### **Abstract**

The invention relates to a composite structural material comprising a fiber dispersed in a fused matrix, wherein the fiber is derived from carpet, carpet recycle, carpet scrap, or mixtures thereof, and wherein the fused matrix comprises a thermoplastic comprising nylon, polyolefin, or mixtures thereof. The invention also relates to a method of manufacturing a rigid board composite structural material comprising the steps comminuting carpet to a predetermined particle size, adjusting the carpet feed stock to a form a balanced feed stock, introducing the feed stock into an extruder, and extruding the feed stock to form a structural composite comprising fiber dispersed in a fused matrix.

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